

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P939126

Luminaire Tested: **GALN-SB1C-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939126
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5109 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

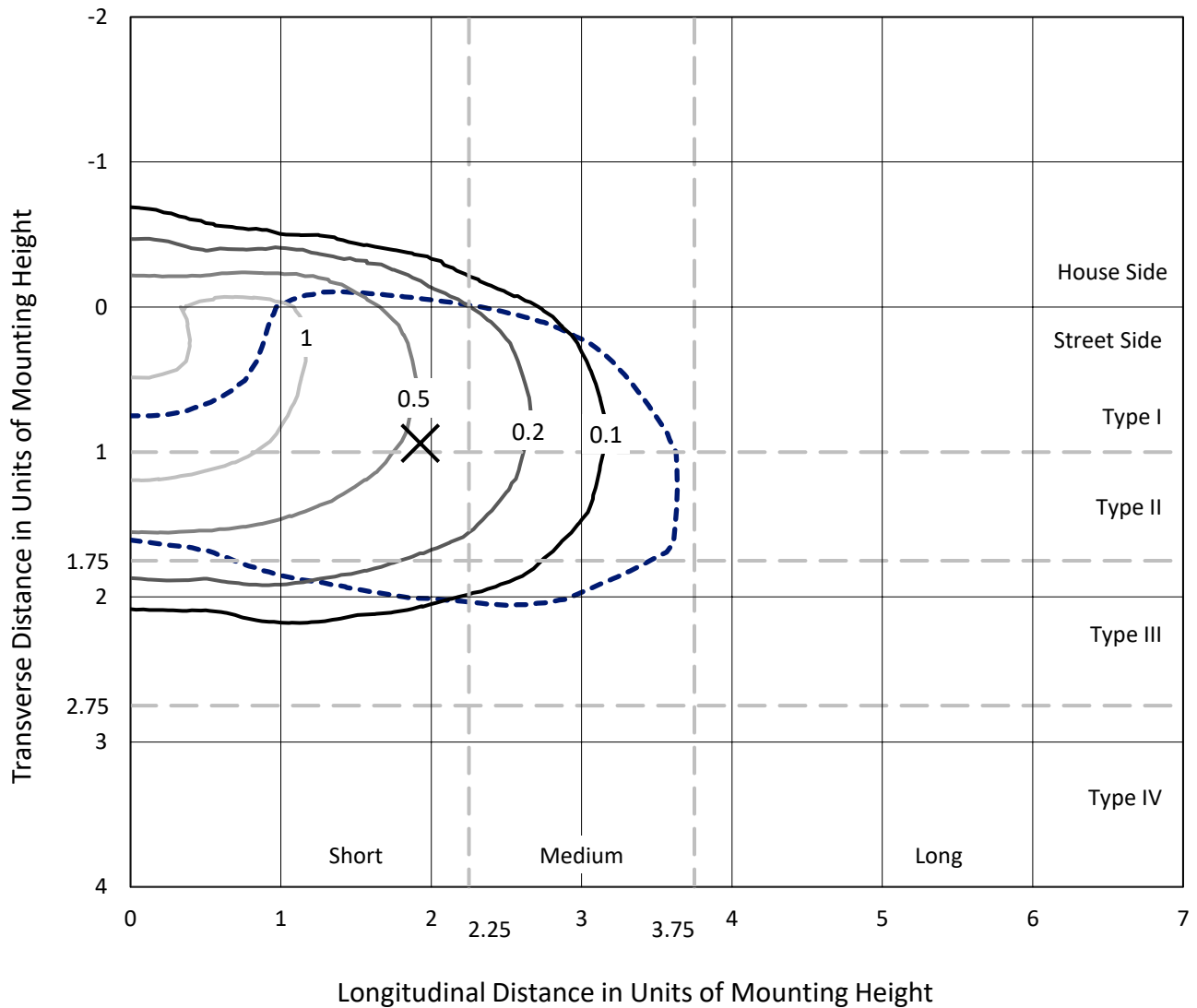
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

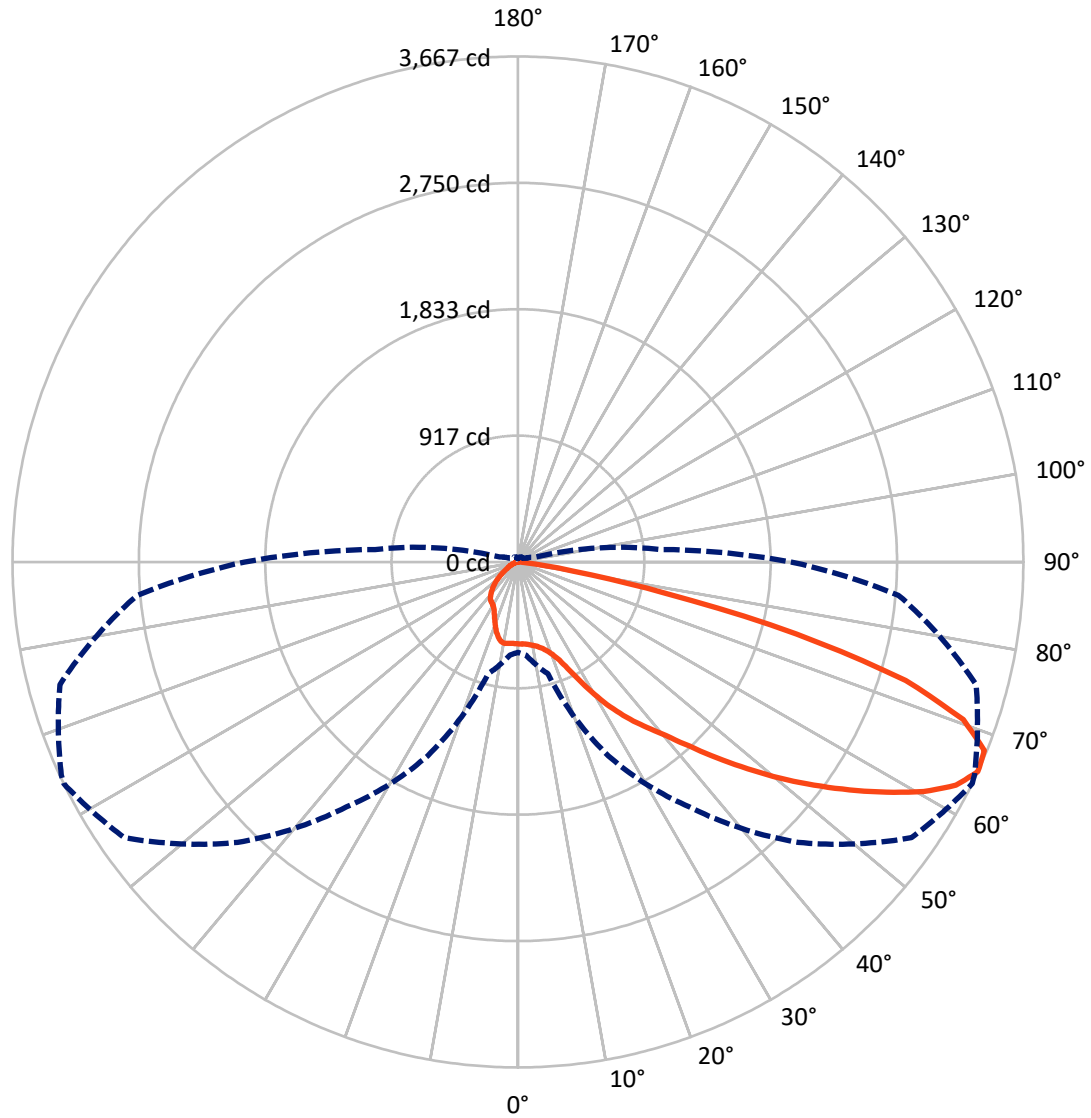
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	683.2	0.0	683.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4425.8	0.0	4425.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	5109.0	0.0	5109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.1
10°-20°	148.7	2.9
20°-30°	281.8	5.5
30°-40°	570.2	11.2
40°-50°	971.3	19.0
50°-60°	1320.9	25.9
60°-70°	1240.4	24.3
70°-80°	496.9	9.7
80°-90°	24.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5109.0	100.0
0°-180°	5109.0	100.0

Coefficient of Utilization



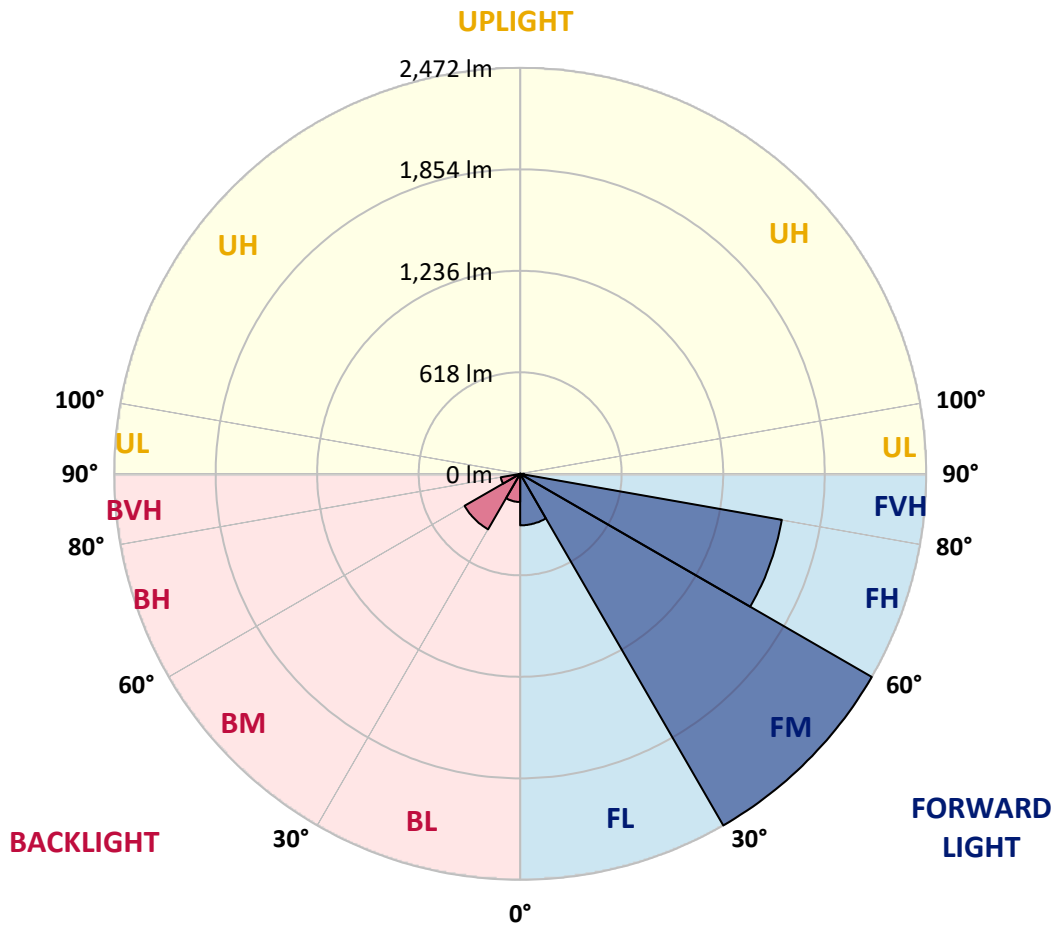
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.8	6.1			
FM (30°-60°)	2471.7	48.4			
FH (60°-80°)	1617.4	31.7			G1/1800
FVH (80°-90°)	22.9	0.4			G1/100
BL (0°-30°)	171.5	3.4	B1/500		
BM (30°-60°)	390.6	7.6	B1/1000		
BH (60°-80°)	119.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	594.2	594.2	594.2	594.2	594.2	594.2	594.2	594.2	594.2	594.2
2.5°	592.2	596.3	595.3	594.2	593.9	594.6	594.9	594.6	594.6	594.6
5°	580.9	584.3	584.3	586.7	590.1	594.2	597.3	598.0	598.7	599.7
7.5°	559.3	562.0	564.1	572.0	580.5	591.5	600.7	605.5	606.2	610.0
10°	544.6	548.0	551.4	559.6	572.0	588.4	604.2	615.8	617.5	626.4
12.5°	543.9	547.3	551.8	560.7	575.1	592.5	611.7	628.5	631.6	644.6
15°	551.1	555.2	559.3	570.3	585.7	606.9	627.5	648.3	651.4	669.9
17.5°	565.8	571.3	574.4	585.3	601.8	625.4	652.5	676.4	679.2	700.7
20°	594.9	601.4	602.4	611.4	627.5	652.8	685.0	714.8	718.2	742.9
22.5°	655.2	664.4	656.2	660.7	675.1	700.4	735.3	773.0	777.8	805.9
25°	761.4	774.4	753.1	745.6	751.8	778.1	822.0	869.6	875.1	897.7
27.5°	969.9	953.2	921.0	889.5	871.0	886.0	935.4	994.3	1001.1	1023.0
30°	1199.1	1184.3	1140.9	1071.0	1027.1	1024.7	1070.3	1136.1	1143.9	1164.8
32.5°	1428.5	1414.5	1367.2	1281.3	1205.2	1167.6	1199.1	1272.0	1276.1	1289.5
35°	1654.3	1639.9	1592.6	1504.6	1411.1	1325.5	1319.3	1401.5	1402.9	1416.9
37.5°	1881.3	1869.3	1819.0	1732.7	1640.6	1522.4	1465.2	1524.1	1525.8	1539.5
40°	2043.3	2048.5	2013.9	1947.1	1868.0	1738.8	1628.9	1654.6	1644.3	1667.3
42.5°	2182.4	2192.7	2162.5	2129.0	2083.1	1969.3	1831.7	1827.2	1810.8	1823.1
45°	2302.6	2311.2	2284.1	2276.2	2275.2	2195.4	2053.3	2026.5	2003.6	2001.2
47.5°	2346.8	2363.2	2374.9	2401.2	2452.6	2419.0	2282.4	2240.9	2215.3	2196.4
50°	2363.6	2381.0	2420.8	2497.5	2619.1	2633.4	2510.5	2463.9	2432.4	2398.2
52.5°	2341.0	2372.1	2425.6	2554.7	2731.1	2805.4	2729.3	2688.6	2652.6	2596.8
55°	2207.7	2238.9	2348.1	2554.0	2786.9	2925.9	2936.2	2918.1	2877.6	2789.6
57.5°	1926.9	1973.1	2146.1	2467.0	2785.9	3029.7	3139.0	3152.0	3106.8	2980.7
60°	1537.8	1600.5	1811.5	2274.2	2699.9	3085.9	3316.7	3381.8	3333.9	3169.1
62.5°	1073.0	1145.6	1345.3	1972.1	2503.3	3045.5	3446.5	3566.7	3530.4	3337.6
65°	654.5	677.8	838.8	1551.8	2169.0	2876.3	3486.6	3666.8	3654.8	3440.7
67.5°	436.0	455.5	501.8	1064.1	1683.7	2538.2	3390.7	3649.3	3652.7	3423.9
70°	262.7	279.5	309.6	618.9	1091.2	2009.1	3093.8	3426.7	3446.5	3199.6
72.5°	108.2	119.5	146.9	280.5	565.1	1275.1	2463.6	2942.0	2988.3	2690.3
75°	61.3	67.1	86.3	140.8	245.2	594.2	1492.3	2088.5	2156.7	1854.3
77.5°	40.8	43.5	55.8	91.1	138.0	202.8	637.7	1088.1	1218.3	1012.8
80°	27.4	29.8	38.4	61.0	89.7	87.0	203.1	403.1	495.9	348.0
82.5°	18.5	18.8	27.4	40.1	56.9	42.1	59.9	125.4	157.5	100.7
85°	10.6	10.3	20.2	23.3	25.3	17.5	18.2	37.7	49.3	42.5
87.5°	1.4	2.1	7.9	6.2	3.4	3.8	3.8	6.5	9.6	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
594.2	0°	594.2	594.2	594.2	594.2	594.2	594.2	594.2	594.2	594.2	594.2
594.9	2.5°	594.9	594.6	593.5	592.5	590.1	588.7	589.4	588.7	588.4	588.7
599.4	5°	599.4	598.3	595.6	592.2	587.4	581.6	577.8	572.3	567.2	564.1
611.4	7.5°	611.4	610.3	606.6	597.0	581.6	557.2	535.0	515.5	500.7	492.2
630.5	10°	630.5	628.8	623.0	601.8	561.4	508.3	464.1	427.4	403.5	392.2
653.1	12.5°	653.1	651.1	640.8	597.3	523.0	440.1	379.1	338.4	316.1	306.2
679.2	15°	679.9	677.1	656.9	576.1	467.2	364.8	308.9	278.4	264.1	255.2
712.4	17.5°	713.1	708.3	668.9	544.2	406.5	307.2	265.8	242.8	230.2	221.6
755.9	20°	756.2	748.4	678.5	506.2	350.7	270.9	236.7	217.5	207.9	200.4
817.5	22.5°	816.5	805.2	690.1	465.1	311.3	245.9	215.1	201.0	193.2	184.6
903.5	25°	891.2	877.8	704.5	427.1	284.3	224.3	199.3	187.7	178.4	168.5
1016.2	27.5°	995.6	971.7	721.6	395.9	261.0	205.8	184.9	171.9	161.3	153.1
1143.9	30°	1112.1	1072.7	736.7	377.1	239.7	188.7	166.1	153.1	143.2	137.3
1258.7	32.5°	1222.4	1168.9	746.6	368.9	220.6	169.2	145.6	131.5	124.0	122.3
1371.0	35°	1326.5	1255.9	745.6	361.0	203.4	149.7	125.4	111.0	105.1	106.2
1491.9	37.5°	1446.4	1348.7	738.4	348.7	189.4	131.9	107.9	95.2	90.1	90.4
1638.8	40°	1585.8	1455.9	734.0	325.4	174.0	115.4	93.5	83.2	79.5	78.1
1793.6	42.5°	1734.4	1559.7	734.7	299.0	154.8	100.7	83.6	75.0	71.6	70.6
1965.9	45°	1883.7	1658.7	735.7	271.6	134.6	89.4	76.4	69.2	67.1	65.8
2140.6	47.5°	2024.1	1743.0	716.5	242.1	114.7	80.8	70.6	65.8	64.0	62.3
2316.0	50°	2155.0	1799.1	670.3	207.9	99.0	74.0	66.1	62.7	61.0	59.3
2474.9	52.5°	2256.7	1808.0	593.9	172.6	88.0	68.8	63.4	60.3	58.2	56.5
2603.3	55°	2301.9	1752.2	485.3	139.7	79.5	64.4	60.6	57.5	55.1	53.4
2704.3	57.5°	2290.3	1634.7	378.5	112.3	71.2	59.9	57.2	55.1	52.4	49.7
2786.2	60°	2233.1	1477.5	285.3	93.5	63.7	55.1	53.4	51.7	47.9	43.8
2817.7	62.5°	2134.1	1279.9	203.4	77.4	55.5	49.7	49.0	47.6	42.1	34.6
2771.1	65°	1982.7	1039.8	137.0	64.4	47.6	43.5	43.8	41.4	34.2	25.7
2600.6	67.5°	1761.5	760.3	87.7	52.7	39.7	36.3	36.6	35.3	29.1	21.9
2277.3	70°	1479.6	503.5	57.2	40.1	31.9	28.1	30.1	30.5	24.7	17.8
1747.8	72.5°	1084.7	297.3	40.1	29.8	23.3	19.5	24.7	25.3	19.9	13.4
1051.5	75°	618.2	141.1	30.1	21.6	14.4	13.7	19.2	19.2	13.7	8.9
455.2	77.5°	259.6	58.9	21.2	14.0	8.2	7.9	13.0	12.0	6.8	4.1
111.0	80°	75.0	26.4	11.3	6.8	3.4	3.1	5.1	3.8	1.7	0.7
42.1	82.5°	29.5	11.6	4.5	2.7	1.4	1.4	0.7	0.0	0.0	0.0
24.0	85°	17.5	4.8	2.1	1.0	0.3	0.0	0.0	0.0	0.0	0.0
5.1	87.5°	4.5	1.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
594.2
590.1
564.8
492.5
391.1
305.2
255.5
220.9
199.0
183.2
167.5
151.4
136.3
123.3
106.2
91.8
77.7
70.2
65.8
62.3
59.3
56.2
53.1
49.3
43.2
33.9
25.0
20.9
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